- 26. (New) An isolated polynucleotide comprising SEQ ID NO:1 nucleotides 342 to 1610.
  - 27. (New) An isolated polynucleotide comprising SEQ ID NO:1.
- 28. (New) An isolated polynucleotide consisting of SEQ ID NO:1 or a fragment thereof encoding a protein having the activity of a histidine kinase.



- 29. (New) An isolated polynucleotide comprising the full complement of SEQ ID NO:1.
- 30. (New) An isolated polynucleotide which hybridizes under stringent conditions to SEQ ID NO:1 or the full complement thereof, wherein said stringent conditions comprise washing in 5XSSC at a temperature from 50 to 68°C and wherein said polynucleotide encodes a protein having the activity of a histidine kinase.
- 31. (New) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the genus Corynebacterium.
- 32. (New) The isolated polynucleotide of claim 30, wherein said polynucleotide is native to the species Corynebacterium glutamicum.
  - 33. (New) A vector comprising the isolated polynucleotide of claims 20 or 21.
- 34. (New) A vector comprising the isolated polynucleotide of claims 23, 26, 27, 28 or 29.
  - 35. (New) A vector comprising the isolated polynucleotide of claim 30.
  - 36. (New) A bacterium comprising the vector of claim 34.
- 37. (New) The bacterium of claim 36, wherein said bacterium is of the species Escherichia coli or of the genus Corynebacterium.

38. (New) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from the full complement of SEQ ID NO:1, wherein said polynucleotide is a probe in a hybridization reaction to detect or to isolate a polynucleotide encoding a protein having the activity of a histidine kinase.

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- 39. (New) An isolated polynucleotide consisting of at least 30 consecutive nucleotides selected from SEQ ID NO:1 or the full complement thereof, wherein said polynucleotide is a primer in a polymerase chain reaction to produce a polynucleotide encoding a protein having the activity of a histidine kinase.
  - 40. (New) A bacterium comprising the vector of claim 33.
  - 41. (New) A bacterium comprising the vector of claim 35.
- 42. (New) The vector pCR2.11uxSint contained in the E. coli strain Top10/pCR2.11uxSint (DSM Accession No. 14082).

## IN THE ABSTRACT OF THE DISCLOSURE

Please delete the present Abstract of the Disclosure and replace it with the following new Abstract of the Disclosure.



--This invention relates to novel polynucleotide sequences encoding histidine kinase from corynebacterium glutamicum.--